

LAW OFFICES  
**JACOBSON, PRICE, HOLMAN & STERN**  
PROFESSIONAL LIMITED LIABILITY COMPANY  
THE JENIFER BUILDING  
400 SEVENTH STREET, N.W.  
WASHINGTON, D.C. 20004

Attny's Docket No. P65582USO

**SMALL ENTITY DECLARATION**  
[37 CFR 1.9(c-f)]

Each undersigned declares that:

- (1) ☒ the application attached hereto  
(2) ☐ U.S. Application Serial No. \_\_\_\_\_ filed \_\_\_\_\_  
(3) ☐ U.S. Patent No. \_\_\_\_\_ Issued \_\_\_\_\_

is entitled to the benefits of "small entity" status for paying reduced fees under 35 USC 41(a) and (b) to the Patent and Trademark Office by virtue of the following:

(4) ☐ Each undersigned declares that he/she qualifies as an independent inventor, or would qualify had he/she made the invention, as defined in 37 CFR 1.9(c).

(5) ☐ The undersigned declares that he/she is an official empowered to act behalf of the concern identified below; that this concern qualifies as a small business concern as defined in 37 CFR 1.9(d).

(6) ☒ The undersigned declares the he/she is an official empowered to act on behalf of the organization identified below; that this organization qualifies as a nonprofit organization as defined in

- (a) ☐ 37 CFR 1.9(e)(1)  
(b) ☐ 37 CFR 1.9(e)(2)  
(c) ☐ 37 CFR 1.9(e)(3)  
(d) ☒ 37 CFR 1.9(e)(4)

State law of \_\_\_\_\_

(7) Each person, concern or organization to which i/we have assigned, granted, conveyed or licensed, or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- (a) ☐ no such person, concern or organization  
(b) ☐ persons, concerns or organizations listed below

[a separate declaration is required from each named person, concern or organization having rights to this invention averring to their status as "small entities."]

Full Name \_\_\_\_\_

Address \_\_\_\_\_

☐ Individual ☐ Small Business concern ☐ Nonprofit Organization

I/we acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement of small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I/we hereby declare all statements made herein of his/her own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application, any patent issued thereon, or any patent to which this declaration is directed.

(8) \_\_\_\_\_  
Typed Name of Inventor Signature Date  
\_\_\_\_\_  
Typed Name of Inventor Signature Date

(9) **ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE**

Name of Small Business Concern or Nonprofit Organization

YU, JEA-HOON By Yu, Jen Hoon 01/21/00  
Typed Name Signature Date

Group Manager of Intellectual Property

**DECLARATION  
AND POWER OF ATTORNEY  
U.S.A.**

FOR ATTORNEY'S USE ONLY

ATTORNEYS' DOCKET NO.

P65582US0

ALL PATENTS, INCLUDING DESIGN  
FOR APPLICATION BASED ON PCT; PARIS CONVENTION;  
NON PRIORITY; OR PROVISIONAL APPLICATIONS

As a below named inventor, I declare that my residence, post office address and citizenship are stated below next to my name, the information given herein is true, that I believe that I am the original, first and sole inventor (if only one name is listed at 201 below), or an original, first and joint inventor (if plural inventors are named below at 201-203, or on additional sheets attached hereto) of the subject matter which is claimed and for which patent is sought on the invention entitled:

**APPARATUS AND METHOD  
FOR MODULATING DATA MESSAGE BY EMPLOYING ORTHOGONAL VARIABLE  
SPREADING FACTOR (OVSF) CODES IN MOBILE COMMUNICATION SYSTEM**

which is described and claimed in: ☐ PCT international Application No. \_\_\_\_\_ filed \_\_\_\_\_  
☒ the attached specification ☐ the specification in application Serial No. \_\_\_\_\_ filed \_\_\_\_\_  
(if applicable) and amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 (a)-(b) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

<u>1999-19813</u> (Number)	<u>Repubilc of Korea</u> (Country)	<u>31/05/1999</u> (Day/Month/Year Filed)
<u>1999-36383</u> (Number)	<u>Repubilc of Korea</u> (Country)	<u>30/08/1999</u> (Day/Month/Year Filed)
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)

Priority Claimed

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Cod, § 119(e) of any United States provisional application(s) listed below:

Application No. \_\_\_\_\_ Filing Date \_\_\_\_\_ Application No. \_\_\_\_\_ Filing Date \_\_\_\_\_

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.) (Filing Date) (Status: patented, pending, abandoned)

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorneys(Registration No.) to prosecute this application, receive and act on instructions from my agent, and transact all business in the Patent and Trademark Office connected therewith. HARVEY B. JACOBSON, JR.(20,851); D. DOUGLAS PRICE (24,514); JOHN CLARKE HOLMAN (22,769), MARVIN R. STERN (20,640); MICHAEL R. SLOBASKY (26,421); JONATHAN L. SCHERER (29,851); IRWIN M. AISENBERG (19,007); WILLIAM E. PLAYER (31,409) AND YOON S. HAM(45,307)

SEND CORRESPONDENCE TO:

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PROFESSIONAL LIMITED LIABILITY COMPANY  
400 Seventh Street, N.W.  
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DIRECT TELEPHONE CALLS TO:

(please use Attorney's Docket No.) (202) 638-6666

**JACOBSON, PRICE, HOLMAN & STERN**  
PROFESSIONAL LIMITED LIABILITY COMPANY

\*Inventor(s) name must include at least one unabbreviated first or middle name.

201	FULL NAME* OF INVENTOR	FAMILY NAME <b>BANG</b>	GIVEN NAME <b>SEUNG-CHAN</b>	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY <b>Taejon</b>	STATE OR FOREIGN COUNTRY <b>Korea</b>	COUNTRY OF CITIZENSHIP <b>Korea</b>
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202	FULL NAME* OF INVENTOR	FAMILY NAME <b>KIM</b>	GIVEN NAME <b>TAE-JOONG</b>	MIDDLE NAME
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203	FULL NAME* OF INVENTOR	FAMILY NAME <b>KIM</b>	GIVEN NAME <b>JAE-HEUNG</b>	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY <b>Taejon</b>	STATE OR FOREIGN COUNTRY <b>Korea</b>	COUNTRY OF CITIZENSHIP <b>Korea</b>
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>#106-807 Sejong Apt., Jeonmin-dong, Yusong-Gu</b>	CITY <b>Taejon</b>	STATE OR COUNTRY <b>Korea</b>

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under section 1001 of Title 18 of the United States Code; and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201*	SIGNATURE OF INVENTOR 202*	SIGNATURE OF INVENTOR 203*
DATE	DATE	DATE

**ACOBSON, PRICE, HOLMAN. & S**  
**ADDITIONAL INVENTORS**

\* Inventor(s) name must include at least one abbreviated first or middle name.

204	FULL NAME* OF INVENTOR	FAMILY NAME <b>KIM</b>	GIVEN NAME <b>JUNG-IM</b>		MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY <b>Taejon</b>	STATE OR FOREIGN COUNTRY <b>Korea</b>		COUNTRY OF CITIZENSHIP <b>Korea</b>
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>#106-401 Backhap Apt., Woalpu yng-dong, Seo-gu</b>		CITY <b>Taejon</b>	STATE OR COUNTRY <b>Korea</b>
205	FULL NAME* OF INVENTOR	FAMILY NAME <b>CHAE</b>	GIVEN NAME <b>JONG-SUK</b>		MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY <b>Taejon</b>	STATE OR FOREIGN COUNTRY <b>Korea</b>		COUNTRY OF CITIZENSHIP <b>Korea</b>
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>#111-103 Hanbit Apt., Eueon-dong, Yusong-Gu</b>		CITY <b>Taejon</b>	STATE OR COUNTRY <b>Korea</b>
206	FULL NAME* OF INVENTOR	FAMILY NAME <b>LEE</b>	GIVEN NAME <b>HYUCK-JAE</b>		MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY <b>Taejon</b>	STATE OR FOREIGN COUNTRY <b>Korea</b>		COUNTRY OF CITIZENSHIP <b>Korea</b>
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>#109-1503 Hanareum Apt., Woalpu yng-dong, Seo-Gu</b>		CITY <b>Taejon</b>	STATE OR COUNTRY <b>Korea</b>
207	FULL NAME* OF INVENTOR	FAMILY NAME <b>SHIM</b>	GIVEN NAME <b>JAE-RYONG</b>		MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY <b>Taejon</b>	STATE OR FOREIGN COUNTRY <b>Korea</b>		COUNTRY OF CITIZENSHIP <b>Korea</b>
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208	FULL NAME* OF INVENTOR	FAMILY NAME <b>LEE</b>	GIVEN NAME <b>NARM-HEE</b>		MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY <b>Taejon</b>	STATE OR FOREIGN COUNTRY <b>Korea</b>		COUNTRY OF CITIZENSHIP <b>Korea</b>
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209	FULL NAME* OF INVENTOR	FAMILY NAME	GIVEN NAME		MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY		COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY	ZIP CODE
210	FULL NAME* OF INVENTOR	FAMILY NAME	GIVEN NAME		MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY		COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY	ZIP CODE
211	FULL NAME* OF INVENTOR	FAMILY NAME	GIVEN NAME		MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY		COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY	ZIP CODE

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under section 1001 of Title 18 of the United States Code; and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 204*	SIGNATURE OF INVENTOR 205*	SIGNATURE OF INVENTOR 206*
<i>Kim Jung-im</i>	<i>Chae Jong-suk</i>	<i>Lee Hyuck-jae</i>
DATE May 22, 2000	DATE May 22, 2000	DATE May 22, 2000
SIGNATURE OF INVENTOR 207*	SIGNATURE OF INVENTOR 208*	SIGNATURE OF INVENTOR 209*
<i>Shim jae ryong</i>	<i>Lee narm hee</i>	
DATE May 22, 2000	DATE May 22, 2000	DATE
SIGNATURE OF INVENTOR 210*	SIGNATURE OF INVENTOR 211*	
DATE	DATE	